No. 609,967. Patented Aug. 30, 1898.

# W. C. LADD.

## TOOL HOLDER.

(Application filed Nov. 8, 1897.)

(No Model.)

Fig. 1.

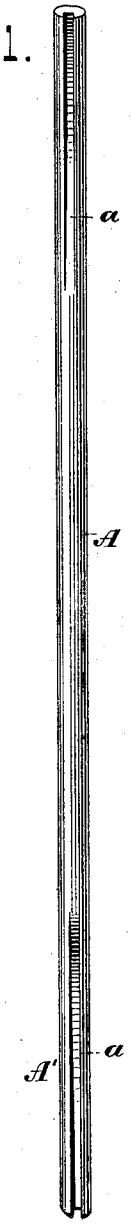



Fig. 4.

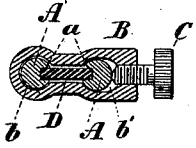



Fig. 5.

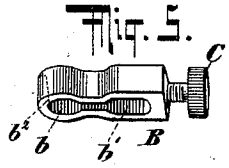



Fig. 2.

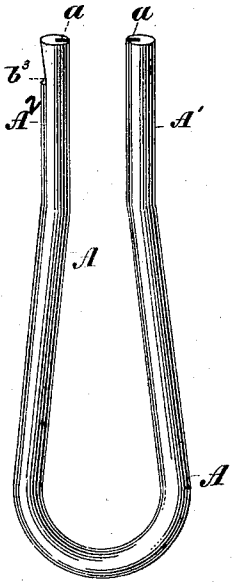
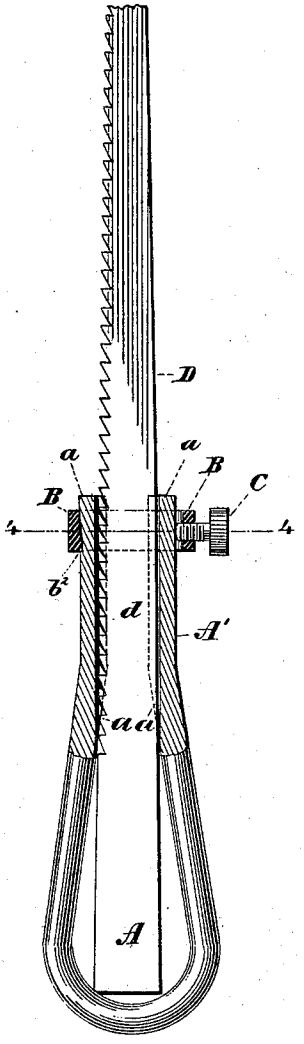



Fig. 3.




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# UNITED STATES PATENT OFFICE.

WYLLYS C. LADD, OF BRISTOL, CONNECTICUT.

## TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 609,967, dated August 30, 1898.

Application filed November 8, 1897. Serial No. 657,734. (No model.)

*To all whom it may concern:*

Be it known that I, WYLLYS C. LADD, of Bristol, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Tool-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The primary object of my invention is to provide a tool-holder which shall be of the very simplest construction, convenient in use, inexpensive in construction, and effective in service.

To the above end my invention consists in the details of a tool-holder and their combination in a tool-holder, as is hereinafter more particularly described, and pointed out in the claims.

Reference is to be had to the accompanying drawings and to the letters marked thereon, the same letters designating the same parts or features wherever they occur.

Referring to the drawings, Figure 1 is a perspective view of the handle of my tool-holder before being bent into form. Fig. 2 is a perspective view of the same after being formed. Fig. 3 is a plan view of the complete tool-holder, partly in section. Fig. 4 is a sectional view of the handle, yoke, and tool itself on the line 4 4 of Fig. 3. Fig. 5 is a perspective view of the yoke.

In the accompanying drawings I have chosen to represent the handle of my improved tool-holder as constructed of round wire, which is represented by the letter A, and the use I have applied it to is that of a keyhole-saw handle, for which it is perhaps best adapted. This handle is grooved at each end for the reception, when in use, of the stock of the tool, as at *a a*.

In use the handle is bent so that the ends *a a* are even with each other and the grooves in the ends *a a* are opposite each other. The yoke, as illustrated in the drawings, has two side apertures *b' b'*, through which pass the ends *a a* of the wire handle. Thereupon the stock *d* of the tool, which is represented in the drawings by a keyhole-saw D, is inserted in the handle, so that the edges of the stock *d* slide into the grooves of the handle *a a* within the yoke B. The yoke B is provided with a projection at $b^2$, which is forced into a recess $b^3$, or the projection and recess can be made by a press in manufacture, so as to hold the yoke in position upon the end $A^2$ of the handle A opposite the set-screw C. An ordinary thumb-screw C is provided, which in operation presses the end A' of the handle toward the end $A^2$, thus causing the handle ends to firmly grasp or clutch the stock of the tool D by its edges.

Upon finishing with one tool, by loosening the thumb-screw C, the tool D can be removed and another inserted with substantially no expenditure of time or trouble, or the keyhole-saw may be adjusted as to length very quickly and easily, as convenience in use may suggest or dictate.

I have described with some circumstantiality one form of embodiment of my invention, but wish it to be understood that I do not limit myself to the exact materials or form of construction set forth, which may be varied in many details without departing from the spirit of my invention. For example, the handle may be of other material molded into different form, the form of the yoke may be varied in many ways, and the thumb-screw instead of having a round head may be octagonal or any other suitable form for the purpose of enabling the user to effect the purpose for which it is designed. The essence of my invention consists in the employment of the handle and yoke, as above described, to firmly grasp the tool.

It will be observed that this holder is peculiarly adapted for use with keyhole-saws, the length of saw to be used being varied at will within the limit of the length of the handle A. On account, too, of the nature and form of construction of a keyhole-saw, which usually tapers from base to end, a handle for this purpose must possess what may be called "capability for tapering contact"—that is to say, the edges of the saw converge toward the end, and the grooves of the handle must engage these edges by conforming to the converging edges.

I claim as my invention the following-described novel features, substantially as hereinbefore specified, viz:

1. In combination with a flat-bladed tool, of a spring-wire handle, the ends bent to form

a loop and being substantially parallel with each other, the inside faces of said ends being grooved to receive the edges of said flat tool, and a yoke tightly embracing one of said ends and slotted to loosely embrace the other and permitting it to yield toward the first-mentioned end a substantial amount to allow for tools of varying width, and means carried by the yoke for pressing the free end of the handle toward the other thus clamping the edges of the tool, substantially as described.

2. In combination with a flat-bladed tool, of a spring-wire handle, the ends bent to form a loop and being substantially parallel, the inside faces of said ends being grooved for a substantial distance to receive the edges of said flat tool, and a yoke tightly embracing one of said ends and slotted to loosely embrace the other and permitting it to yield toward the first-mentioned end a substantial amount, and means carried by the yoke for pressing the free end of the handle toward the other, thus clamping the edges of a tapering tool for a substantial distance and permitting an adjustment to different tools of different widths or of different degrees of tapering, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WYLLYS C. LADD.

Witnesses:
ALICE E. BROWN,
JOHN J. JENNINGS.